

## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: Industrial detergent

Product code (SDS NO): 2019Feb\_detergent\_US-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Detergent for machined parts

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Asahi Graphic Corporation

Address: KOHGA Bldg. 3F, 4-23-8 Ebisu, Shibuya-KU, Tokyo, 150-0013 Japan

Telephone number: +81-3-5424-3016

FAX: +81-3-5424-3018

#### 1.4 Emergency telephone number: +81-3-5424-3016

### 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

PHYSICAL AND CHEMICAL HAZARDS

Flammable liquids: Category 2

HEALTH HAZARDS

Acute toxicity (Inhalation): Category 4

Skin corrosion/irritation: Category 2

Reproductive toxicity: Category 2

Specific target organ toxicity – single exposure: Category 3(Narcosis)

Specific target organ toxicity – repeated exposure: Category 2

Aspiration hazard: Category 1

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

#### 2.2 Label elements



Signal word: Danger

#### HAZARD STATEMENT

H225 Highly flammable liquid and vapor

H332 Harmful if inhaled

H315 Causes skin irritation

H361 Suspected of damaging fertility or the unborn child

H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure

H304 May be fatal if swallowed and enters airways

#### PRECAUTIONARY STATEMENT

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233 Keep container tightly closed.

- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P264 Wash contaminated parts thoroughly after handling.
- P280 Wear protective gloves.
- P280 Wear protective gloves and face protection.
- P280 Use personal protective equipment as required.

## Response

- P370 + P378 In case of fire: Use appropriate media other than water for extinction.
- P321 Specific treatment is required.
- P314 Get medical advice/attention if you feel unwell.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P331 Do NOT induce vomiting.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

## Storage

- P403 Store in a well-ventilated place. P233 Keep container tightly closed. P235 Keep cool.
- P405 Store locked up.

## Disposal

- P501 Dispose of contents/container in accordance with local/national regulation.

## Specific Physical and Chemical hazards

- Highly flammable liquid. Vapor/air mixture may explode.

## 3. Composition/information on ingredients

## Mixture/Substance selection:

## 3.2 Mixture

Ingredient name	CAS No.	Content (%)
Xylene (Mixture of isomers)	1330-20-7	35 - 40
Ethylbenzene	100-41-4	35 - 40
Toluene	108-88-3	20 - 25
Organic modifier	CBI	10 - 15

Note : The figures shown above are not the specifications of the product.

## 4. First-aid measures

## 4.1 Descriptions of first-aid measures

## General measures

- Get medical attention/advice if you feel unwell.
- IF exposed or concerned: Get medical attention/advice.
- Call a POISON CENTER or doctor/physician if you feel unwell.

## IF INHALED

Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

## IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.

## IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor/physician.

- 4.3 Indication of any immediate medical attention and special treatment needed  
Specific treatment is required.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO<sub>2</sub> to extinguish.

Unsuitable extinguishing media

Do not use direct water jet.

### 5.2 Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

### 5.3 Advice for firefighters

Specific fire-fighting measures

Eliminate all ignition sources if safe to do so.

Cool container with water spray.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

## 6. Accidental release measures

### 6.1 Personnel precautions, protective equipment and emergency procedures

Evacuate area.

Keep unauthorized personnel away.

Wear an air-supplied respirator for a poor/non ventilated spill.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

### 6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

### 6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Fill the disposal into labelled, closable containers.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

Avoid breathing dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

#### Safety Measures/Incompatibility

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear protective gloves and face protection.

Use personal protective equipment as required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Adopted value

(Ethylbenzene)

ACGIH(2010) TWA: 20ppm

(URT irr; kidney dam; nephropathy; cochlear impair)

(Toluene)

ACGIH(2006) TWA: 20ppm (Visual impair; female repro; pregnancy loss)

(Xylene (Mixture of isomers))

ACGIH(1992) TWA: 100ppm

STEL: 150ppm (URT & eye irr; CNS impair)

#### OSHA-PEL

(Ethylbenzene)

TWA: 100ppm, 435mg/m<sup>3</sup>

(Toluene)

TWA: 200ppm; STEL: C 300ppm

Acceptable maximum peak: 500ppm; Maximum Duration: 10min

(Xylene (Mixture of isomers))

TWA: 100ppm, 435mg/m<sup>3</sup>

#### NIOSH-REL

(Ethylbenzene)

TWA: 100ppm; STEL:125ppm

(Toluene)

TWA: 100ppm; STEL: 150ppm

(Xylene (Mixture of isomers))

TWA: 100ppm; STEL: 150ppm

California proposition 65

cancer NSRL

(Ethylbenzene)

NSRL=(inhalation) 54  $\mu$  g/day ; (oral) 41  $\mu$  g/day

developmental MADL

(Toluene)

MADL=7000  $\mu$  g/day

## 8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Wash contaminated parts thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical properties

Appearance: Liquid

Color: Clear

Odor: Solvent odor

Phase change temperature

Initial Boiling Point/Boiling point: 111°C

Flash point: (Closed cup)10°C

Auto-ignition temperature: 432°C

Specific gravity/Density: 0.91(25°C)

Kinematic viscosity: 11.1mm<sup>2</sup>/s(25°C)

Solubility

Solubility in water: Insoluble

## 10. Stability and Reactivity

### 10.2 Chemical stability

Stable under normal storage/handling conditions.

### 10.5 Incompatible materials

Oxidizing agents

### 10.6 Hazardous decomposition products

Carbon oxides

## 11. Toxicological Information

### 11.1 Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

#### Carcinogenicity

(Ethylbenzene)

IARC-Gr.2B : Possibly carcinogenic to humans

(Toluene)

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

(Xylene (Mixture of isomers))

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

(Ethylbenzene)

ACGIH-A3(2010) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

(Xylene (Mixture of isomers))

ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

(Toluene)

ACGIH-A4(2006) : Not Classifiable as a Human Carcinogen

No Teratogenic effects data available

No reproductive toxicity data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure

#### STOT

STOT-repeated exposure

[cat.2]

[EU CLP name of STOT]

(Ethylbenzene)

hearing organs

No Aspiration hazard data available

## 12. Ecological Information

### 12.1 Ecotoxicity

No Aquatic toxicity data available

#### Water solubility

(Ethylbenzene)

0.015 g/100 ml (20°C) (ICSC, 2007)

(Toluene)

none (ICSC, 2002)

### 12.2 Persistence and degradability

(Ethylbenzene)

Not degrade rapidly (BOD\_Degradation : 0% (MITI official bulletin, 1990))

(Toluene)

BOD\_Degradation : 123% (Registered chemicals data check & review)

(Xylene (Mixture of isomers))

Not degrade rapidly (BOD\_Degradation : 39% (NITE primary risk assessment, 2005))

### 12.3 Bioaccumulative potential

(Ethylbenzene)

log Kow=3.15 (PHYSPROP DB, 2005)

(Toluene)

log Kow=2.73 (PHYSPROP DB, 2008)

(Xylene (Mixture of isomers))

log Pow=3.16 (PHYSPROP DB, 2005)

No Mobility in soil data available

Ozone depleting chemical data not available

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

### 14. Transport Information

#### UN No, UN CLASS

14.1 UN No.: 1993

14.2 Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

14.3 Class or division : 3

14.4 Packing group : II

ERG GUIDE No.: 128

Special provisions No.: 274

#### IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN No.: 1993

14.2 Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

14.3 Class or division : 3

14.4 Packing group : II

Special provisions No.: 274

#### IATA Dangerous Goods Regulations

14.1 UN No.: 1993

14.2 Proper Shipping Name :

FLAMMABLE LIQUID, N.O.S.

14.3 Class or division : 3

Hazard labels : Flamm.liquid

14.4 Packing group : II

Special provisions No.: A3

#### 14.5 Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

#### 14.6 Special precautions for user

Avoid temperature above: 35°C

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. Y

Ethylbenzene; Xylene (Mixture of isomers); Toluene

## 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### US major regulations

##### TSCA

Ethylbenzene; Toluene; Xylene (Mixture of isomers)

##### California proposition 65

cancer

Ethylbenzene

developmental

Toluene

#### Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

## 16. Other information

### GHS classification and labelling

Flam. Liq. 2: H225 Highly flammable liquid and vapor

Acute Tox. 4: H332 Harmful if inhaled

Skin Irrit. 2: H315 Causes skin irritation

Repr. 2: H361 Suspected of damaging fertility or the unborn child

STOT SE 3: H336 May cause drowsiness or dizziness

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (60th Edition) 2019

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2018 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Hazard Communication Standard – 2012 (29 CFR 1910.1200)

Chemicals safety data management system "GHS Assistant" (<https://www.asahi-ghs.com/>)

### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The GHS classification data given here is based on current EU official data (EU CLP published in 01.03.2018).